ADPRO®
FastTrace 2 Series

Supported IP Cameras

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Convention	Description
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Italics	Used to denote: references to other parts of this document or other documents. Used for the result of an action

The following icons are used in this document.

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1 Introduction

Click HERE for the Supported IP cameras list for FastTrace 2.

Click HERE for the Supported IP cameras list for FastTrace 2X/2E.

1.1 Scope of this document

This document contains 2 lists: one list of supported H.264 IP cameras and H.264 IP video encoders for the ADPRO® FastTrace™ 2 (i.e. the FastTrace 2 units with product numbers starting with 55) and a second list for the supported H.264 IP cameras and H.264 IP video encoders for the ADPRO® FastTrace™ 2X/2E (i.e. the FastTrace 2X/2E units with product numbers starting with 56 and 58).

To support all the IP cameras and IP video encoders listed, a minimum FastTrace 2 series firmware version 2.10.0008 is recommended on FastTrace 2, 2X/2E.

The lists in this document contain **only** cameras that Xtralis has tested and approved according to its own protocols. However, this list is not binding and makes no claim to be complete. If you want to use IP cameras or video encoders that are not listed in this document, Xtralis does not guarantee that the cameras will function on the FastTrace 2, 2X/2E units. Xtralis does not guarantee correct operation because cameras may show unexpected behaviour with firmware versions not tested by Xtralis. Xtralis does not offer any support for non-tested cameras.

1.2 Important note

IP cameras are expected to perform best at their latest firmware version. Please refer to the manufacturer's website for full details on the latest available firmware. In the exceptional case that new camera firmware would not be backwards compatible with its previous version(s) as originally tested with FastTrace 2, 2X/2E, this may affect FastTrace 2, 2X/2E operation. In these circumstances Xtralis will make the best effort possible to correct the situation in a reasonable amount of time.

1.3 Performance note

IP cameras tend to generate bitrates that can go up to 4–5 Mbps per camera, especially for Full HD or Megapixel cameras. Depending on brand and type, the IP cameras can handle 2 or 3 streams; specifically and even key differentiator to traditional DVRs/NVRs, the FastTrace 2, 2X/2E units use multiple streams per camera to be able to manage live viewing, recording, transmission, and analytics in one box.

Knowing that any network connected device has its limits concerning bandwidth, disk access, throughput, storage capacity, number of streams… please notice the following rules of thumb for the FastTrace 2 and the FastTrace 2X/2E:

- FastTrace 2: up to 16 x 1.3 MegaPixel IP cameras @ 25 fps + max 4 analytic channels (Obtained by Xtralis in-house testing using 16 x Axis M1054 IP camera @25 fps with FastTrace 2 – 55501100 model)
- FastTrace 2X/2E: up to 20 x 5.1 MegaPixel IP cameras @ 10 fps + max. 20 analytic channels (Obtained by Xtralis in-house testing using 20 x Axis P1357 IP camera @10 fps with FastTrace 2E – 58051540 model)
- FastTrace 2E with XOa 3 software: up to 32 x 5.1 Megapixel IP cameras + max. 32 analytic channels (also depending on hardware).

Note

H.264 decoding is extremely sensitive to bandwidth use fluctuations related to camera view scenario and image content activity. Even changing IP camera brand will result in bandwidth use differences and influence the FastTrace 2, 2X/2E performance behaviour.

2 FastTrace 2, 2X/2E Management of the IP Video Streams

Type of video stream behaviour	Number of independent camera streams	Setting continuous recording	Setting event recording	Live stream
A	1	Settings continuous recording, event recording and live stream are equal. No analytics stream available**		
B	2 (standard for non-tested cameras)	= analytics stream*	Programmable	Setting of event recording or analytics stream*
C	2	Programmable	Programmable	Setting of continuous recording or event recording**
D	3	Programmable	Programmable	Setting of continuous recording or event recording or analytics stream*
E	4	Programmable	Programmable	Programmable

* Analytics stream: CIF resolution (or the next available higher resolution that is lower than CIF), 5 fps and Q = ± 50. This stream is used for motion detection, sabotage detection, post motion detection, loitering detection, outdoor perimeter detection, local video output, and generating quad pictures.

** No analytics stream available. As a consequence, no motion detection, sabotage detection, post motion detection, loitering detection, outdoor perimeter detection, local video output, or generating quad pictures available. Such cameras are not recommended for Video Central Platinum or EMS.

3 Supported IP Cameras for FastTrace 2X/2E

3.1 Integrated IP Cameras

The following cameras have been tested and approved for use with the FastTrace 2X/2E units.

3.2 Legend

Abbreviation	Meaning
SD	Standard definition
HD	High definition
NA	Not available
NOK	Not OK, cannot be used on FastTrace 2X/2E unit
NT	Not tested

3.3 IP Camera Default Settings

- Camera IP address should be set by web browsing into the camera. Avoid using included or downloaded (manufacturer's) IP camera setup tools.
- Make sure all camera settings are left at default, apart from changing the IP address, unless the Generic Driver is used.
- Corridor mode in the camera is not supported.

3.4 IP Camera Manufacturers

Click the manufacturer to go to the supported IP cameras from that manufacturer:

- ACTI
- Arecont
- Avigilon
- Axis
- Bosch
- Brickcom
- Hikvision
- JVC
- Panasonic
- Pelco
- Samsung
- Sanyo
- Sony
- Generic Driver
- Generic ONVIF Profile S Driver

3.5 ACTI

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
TCM 1231	HD	2	B	Audio In	1 x I 1 x O	NA	2.10.8	4.9.18
TCM 3511	HD	2	B	Audio In	1 x I 1 x O	NA	2.10.8	4.9.18
TCM 4101	SD	2	B	Audio In	NA	NA	2.10.8	4.9.18
TCM 4301	HD	2	B	Audio In	NA	NA	2.10.8	4.9.18
TCM 5311	HD	2	B	Audio In	1 x I 1 x O	NA	2.10.8	4.9.18
TCM 5611	HD	2	B	Audio In	1 x I 1 x O	NA	2.10.8	4.9.18
TCM 6630	SD	2	B	Y	1 x I 1 x O	Y	2.10.8	4.9.18
TCM 7411	HD	2	B	Audio In	1 x I 1 x O	NA	2.10.8	4.9.18
TCD500	SD	2	B	Audio In	1 x I 1 x O	NA	2.10.8	4.9.18
E83[1]	HD 5 MP	2	B	NA	NA	NA	2.10.8	NA
E53[1]	HD 5 MP	2	B	NA	NA	NA	2.10.8	NA
E54	HD 5 MP	2	B	NA	NA	NA	2.11.23	6.5.23
E64	HD 1 MP	2	B	NA	NA	NA	XOa 3.0.3	6.6.16
E85	HD 1 MP	2	B	NA	NA	NA	XOa 3.0.3	6.6.16
E86	HD 3 MP	2	B	NA	NA	NA	XOa 3.0.3	6.6.16

Important notes:

- Maximum usable framerate: 15 fps.
- Do not use B2 frames.
- When available (for E-Series) use Baseline Profile instead of Highline Profile.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

[1] This camera model has not officially been tested by Xtralis, but was implemented in a specific project.

3.6 Arecont

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
3105	HD	2	C	NA	NA	NA	2.10.8	NA
8185	HD	1	A	NA	NA	NA	2.10.8	NA

Important notes:

- The Arecont 8185 camera uses 4 IP video channels on the FastTrace 2X/2E.
- No analytics stream available (see FastTrace 2, 2X/2E Management of the IP Video Streams).
- Non-tested camera models may not work at all.

3.7 Avigilon

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
2.0MP-HD-H264-D1	HD	2	B	NOK	1 x O	NA	2.10.8	2.0.4.16
2.0MP-H3-B2	HD	2	B	NOK	1 x O	NA	2.10.8	2.4.10.4
2.0W-H3-B01-IR	HD	2	B	Audio In	1 x O	NA	2.11.23	2.6.0.14

Important notes:

- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

3.8 Axis

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
F41	HD 2 MP 1080p	3	D	Audio In	4 I or O	NA	XOa 3.0.3	5.55.3.2
M1011	SD	2	B	NA	NA	NA	2.10.8	NA
M1011-W	SD	2	B	NA	NA	NA	2.10.8	NA
M1031-W	SD	2	B	Built-in mic *or* audio input	1 x I 1 x O	NA	2.10.8	NA
M1054	HD 1 MP 720p	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.10.8	NA
M1114/-E	HD 1 MP 720p	3	D	NA	NA	NA	2.11.23	5.50.3
M1143-L	SD	3	D	NA	NT	NA	2.10.8	5.40.10
M3004	HD 1 MP 720p	3	D	NA	NA	NA	2.10.8	5.40.5
M3005/-V	HD 2 MP 1080p	3	D	NA	NA	NA	2.10.8	5.40.5
M3006	HD 3 MP 1080p	3	D	NA	1 x I 1 x O	NA	2.10.8	5.40.15
M3007 Dewarp	HD 5 MP	2	B	NA	NA	NA	XOa 3.0.3	5.55.1.4
M3011	SD	2	B	NA	NA	NA	2.10.8	NA
M3014	HD 1 MP	2	B	NA	NA	NA	2.10.8	NA
M3025	HD 2 MP 1080p	3	D	NA	1 x I 1 x O	NA	2.10.8	5.40.5
M3114-R	HD 1 MP 720p	2	B	NA	NA	NA	2.10.8	5.21
M3204	HD 1 MP 720p	3	D	NA	NA	NA	2.10.8	5.12.1
M5014	HD 1 MP 720p	3	D	NA	NA	Y only for setting	2.10.8	5.25.2
P1204	HD 1 MP 720p	3	D	NA	NT	NA	2.10.8	5.40.12
P1311	SD	3	D	Audio In	1 x I 1 x O	NA	2.10.8	NA

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
P1343	SD	3	D	Audio In	1 x I 1 x O	NA	2.10.8	NA
P1344	HD 1 MP 720p	3	D	Audio In	1 x I 1 x O	NA	2.10.8	NA
P1346	HD 3 MP 1080p	3	D	Audio In	1 x I 1 x O	NA	2.10.8	5.40.9
P1347	HD 5 MP	2	B	Audio In	1 x I 1 x O	NA	2.10.8	5.40.9
P1353	SD	2	B	Built-in mic *or* audio input	1 x I 1 x O	NA	2.10.8	5.40.19.1 [2]
P1354	HD 1 MP 720p	3	D	Audio In	1 x I 1 x O	NA	2.10.8	5.40.18
P1355/-E	HD 2 MP 1080p	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.11.27	5.40.19
P1357	HD 5 MP	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.10.8	5.40.19
P1425-E/LE	HD 2 MP 1080p	3	D	NA	1 x I 1 x O	NA	XOa 3.0.3	5.55.3.2
P1428-E	4K Ultra HD 8MP	3	D	NA	1 x I 1 x O	NA	XOa 3.0.3	5.55.5.1
P3215-VE	HD 2 MP 1080p	3	D	NA	NA	NA	XOa 3.0.3	5.55.3.2
P3301/-V	SD	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.10.8	NA
P3304	HD 1 MP 720p	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.10.8	5.40.9
P3343/-V	SD	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.10.8	NA
P3343-VE	SD	3	D	Audio In	1 x I 1 x O	NA	2.10.8	NA

[2] Do NOT rotate or mirror image when defining privacy mask.

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
P3344/-V	HD 1 MP 720p	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.10.8	NA
P3344-VE	HD 1 MP 720p	3	D	Audio In	1 x I 1 x O	NA	2.10.8	NA
P3354	HD 1 MP 720p	3	D	NA	NA	NA	2.11.23	5.40.17
P3346	HD 3 MP	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.10.8	5.40.9
P3364-L	HD 1 MP 720p	3	D	Built-in mic *or* audio input	NT	NA	2.10.8	5.40.10
P3367/-V/-VE	HD 5 MP	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.10.8	5.40.3
P3384	HD 1 MP 720p	3	D	Built-in mic *or* audio input	NT	NA	2.10.8	5.40.11
P5414-E	HD 1 MP 720p	3	D	NT	4 I or O	Y	2.11.23	5.55.1
P5512	SD	3	D	NT	NT	Y	2.10.8	5.25
P5522/-E	SD	3	D	NT	NT	Y	2.10.8	5.25.1
P5532/E	SD	3	D	NT	NT	Y	2.10.8	5.20.1
P5534/-E	HD 1 MP 720p	2	B	NT	4 I or O	Y	2.10.8	5.15.1
Q1602	SD	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.10.8	5.40.3
Q1604	HD 1 MP 720p	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.10.8	5.40.3
Q1614/-E	HD 1 MP 720p	3	D	Built-in mic *or* audio input	2 I or O	NA	2.11.23	5.55.1

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
Q1615	HD 2 MP 1080p	3	D	Built-in mic *or* audio input	2 I or O	NA	XOa 3.0.3	5.55.3.3
Q1635	HD 2 MP 1080p	3	D	Built-in mic *or* audio input	2 I or O	NA	XOa 3.0.3	5.55.3.5
Q1755	HD 2 MP 1080i	3	D	Built-in mic *or* audio input	1 x I 1 x O	only zoom	2.10.8	NA
Q1765-LE	HD 2 MP 1080p	3	D	NT	2 I or O	only zoom	2.11.23	5.55.1
Q1921/-E Thermal	SD	2	B	Built-in mic *or* audio input	2 I or O	NA	2.10.8	NA
Q3505	HD 2 MP 1080p	3	D		2 I or O	NA	XOa 3.0.3	5.55.3.2
Q6032-E	SD	3	D	NA	NA	Y	2.10.8	NA
Q6035-E	HD 2 MP 1080p	2	B	NT	NT	Y	2.10.8	5.25
Q6042-E	SD	3	D	NA	NA	Y	2.11.29	5.55.1.2
Q6044-E	HD 1 MP 720p	3	D	NA	NA	Y	2.11.23	5.55.1
Q6045-E	HD 2 MP 1080p	3	D	NA	NA	Y	2.11.29	5.55.1.2
Q7401 Video Encoder	SD	3	D	Audio In	4 I or O	Y	2.10.8	5.20.3
Q7404 Video Encoder	SD	3	D	Audio Input	2 I or O	NA	2.10.8	5.20.1
Q7411 Video Encoder	SD	3	D	Audio Input	Min. 2, max. 4 inputs; Min. 0, max. 2 outputs	NA	2.10.8	5.40.13.2

Important notes:

- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

3.9 Bosch

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
Dinion HD 1080p IVA	HD 1080P	2	B	Line in	OK	NA	2.10.8	5.70.43
Flexidome NDN-498-P	SD	2	B	NT	OK	NA	2.10.8	5.70.43
Flexidome NDN-921-P	HD 720P	2	B	NT	OK	NA	2.10.8	5.70.43
NDC 225 P	SD	2	B	Line in	OK	NA	2.10.8	5.70.43
Autodome 800 HD Series	HD 1080P (max res. 1280 x 720, 15 fps)	2	B	NT	OK	Y (Focus & Iris NA)	2.10.8	5.70.43
Flexidome HD 1080P-HDR-VR-IVA	HD 1080P	2	B	NT	1 x I 1 x O	NA	2.10.8	5.80.73
Autodome 7000HD	HD 1080P	2	B	NT	1 x I 1 x O	Y (Focus & Iris NA)	2.10.8	5.80.73
NTC-265-PI	HD 720P	2	B	NOK	1 x I 1 x O	NA	2.11.23	5.72.28
Dinion HD 720 IVA	HD 720P	2	B	NA	NA	NA	2.11.23	NA
Dinion IP Starlight 7000 HD	HD 720P	2	B	NOK	2 x I 1 x O	NA	2.11.29	5.90
Flexidome IP Dynamic 7000	HD 1080P	2	B	NT	1 x I 1 x O	NA	2.11.29	5.90
Dinion IP 7000 HD	HD 1080P	2	B	Line in	OK	NA	2.11.29	5.90

Important notes:

- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

3.10 Brickcom

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
CB-100Ae-08	HD 1 MP	2	B	NA	NA	NA	2.10.8	3.1
CB-102Ap	HD 1 MP	2	B	NA	NA	NA	2.10.8	3.1
FB-131Ap-71	HD 1.3 MP	2	B	NA	NA	NA	2.10.8	3.1
FD-100Ap-73-M	HD 1 MP	2	B	NA	NA	NA	2.10.8	3.1
MD-100Ap-00	HD 1 MP	2	B	NA	NA	NA	2.10.8	3.1
OB-100Ap-73	HD 1 MP	2	B	NA	NA	NA	2.10.8	3.1
OSD-040E-36X up to 25 ips	SD	2	B	NA	NA	Y	2.10.8	3.1
VD-100Ap-73	HD 1 MP	2	B	NA	NA	NA	2.10.8	3.1

Important notes:

- XX-YYYAp-ZZZ: professional model = up to 30 ips.
- XX-YYYAe-ZZZ: economy model = up to 15 ips.
- Camera configuration: some Brickcom camera types have VMS configuration settings:
  - disable WS security for these camera types.
  - ONVIF 1.0 (default) / 2.0: both are possible, but 1.0 is recommended.
  - Synch (default) / Asynch: Sync is recommended.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

3.11 Hikvision

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
DS-2CD833F-E	SD	2	B	NOK	1 x I 1 x O	NA	2.10.8	4.0.3 121126[3][4]
DS-2CD883F-E	HD 5 MP	2	B	NOK	1 x I 1 x O	NA	2.10.8	4.0.3 121126[3][4]
DS-2CD2012-I	HD 1.3 MP	2	B	NA	NA	NA	2.10.8	4.0.8 121109[5]
DS-2CD2032-I	HD 3 MP	2	B	NA	NA	NA	2.10.8	4.0.9 130106[6]
DS-2CD7153-E	HD 2 MP	2	B	NA	NA	NA	2.10.8	4.0.3 121126[3][4]
DS-2CD8153F-E	HD 2 MP	2	B	NOK	NA	NA	2.10.8	5.0.8 130930[7]
DS-2CD762MF-IFB	HD 1.3 MP	2	B	NOK	NA	NA	2.10.8	2.0.121114
DS-2DF1-512	SD	2	B	NOK	2 x I 2 x O	Y	2.10.8	3.1.6 130322[8]
DS-2CD6412FWD-10/20	HD 1.3 MP	2	B	Audio In	1 x I 1 x O	NA	2.11.29	5.2.0 100721
DS-2DF7284-A	HD 2 MP	2	B	Audio In	NT	Y	XOa 3.0.3	5.1.8 140616
DS-2CD2632F-I[1]	HD 3 MP	2	B	NT	NT	NA	XOa 3.0.3	NA
DS-2CD2332-I[1]	HD 3 MP	2	B	NT	NT	NA	XOa 3.0.3	NA

Important notes:

- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.
- Added support for Hikvision firmware Version 5

[3] Encoding version: 4.0 build 120918.
[4] Do not upgrade the camera firmware as newer firmware does not support the same interface as used by FastTrace 2.
[5] Encoding version: V4.0 build 121019.
[6] Encoding version: V4.0 build 121228.
[7] Encoding version: V4.0 build 130701.
[8] Encoding version: V4.0 build 101018.
[1] This camera model has not officially been tested by Xtralis, but was implemented in a specific project.

3.12 JVC

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
VN-T16U	SD	2	B	NOK	NOK	NA	2.10.8	2.2.22.32
VN-H57U	HD 1080p	2	B	Ext. mic	2 x I 2 x O	NA	2.10.8	4.05.013
VN-H157WPU	HD 1080p	2	B	Ext. mic	2 x I 2 x O	NA	2.11.23	4.05.013
VN-H37U	HD 1080p	2	B	NA	NA	NA	2.11.23	NA
VN-H657U/ WPU	HD 1080p	2	B	NA	2 x I 2 x O	Y	2.11.23	2.0.801 spl2841
VN-H557U	HD 1080p	2	B	Ext. mic	2 x I 2 x O	Y	2.11.23	1.0.524 spl2971
VN-T216 VPRU	SD	2	B	NA	NOK	NA	2.11.23	j.2.2.2232
VN-H257VPBU	HD 1080p	2	B	NA	2 x I 2 x O	zoom	2.11.29	6.01.006
VN-H237	HD 1080p	2	B	NA	NA	NA	XOa 3.0.3	6.00.011

Important notes:

- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.
- No support for brightness/contrast/saturation

3.13 Panasonic

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
WV-NW502S	HD 1.3 MP	2	B	Audio In	External I/O	NA	2.10.8	1.32
WV-SP105	HD 1.3 MP	2	B	NA	NA	NA	2.11.23	1.03
WV-SW355E	HD 1.3 MP	2	B	Audio In	External I/O	NA	2.10.8	1.07
WV-SW395	HD 1.3 MP	2	B	Audio In	External I/O	Y	2.10.8	1.07
WV-SW316L	HD 1.3 MP	2	B	Audio In	NT	NA	2.10.8	1.49
WV-SW559	HD 1.3 MP	2	B	NT	NT	NA	2.10.8	NA
WV-SW598	HD 1080p	2	B	NA	3 x I	Y	2.11.23	1.09
WV-SFN631L	HD 3 MP	2	B	Audio In	3 x I	NA	XOa 3.0.3	1.71
WV-SPN631	HD 3 MP	2	B	Audio In	3 x I	NA	XOa 3.0.3	1.55

Important notes:

- Compared to similar IP cameras Panasonic uses significantly higher bandwidth.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

3.14 Pelco

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
IXS0	SD	2	B	NOK	NOK	NA	2.10.8	1.6.13.9080 A1.4657
IX10	HD 1.3 MP	2	B	NOK	NOK	NA	2.10.8	
IXE20	HD 2.1 MP (max res. 1600x1200)	2	B	NOK	NOK	NA	2.10.8	1.7.8.9081 A1.5288
IX30	HD 3.1 MP (max res. 1600x1200)	2	B	NOK	NOK	NA	2.10.8	1.7.19.9080 A1.5842
D5118-FW1	HD 1.3 MP (max res. 1280x960)	2	B	NOK	NOK	Y	2.10.8	NA
Spectra HD S5230	HD 2MP	2	B	NT	NT	Y	XOa 3.0.3	1.9.2.23
TI314-X Thermal	384 x 288	2	B	NOK	NOK	NA	2.10.8	1.8.2.18-20121109-1.9441-O4.8503

Important notes:

- Highest resolution cannot be selected.
- Pelco does not report a detailed cam type to FastTrace 2X/2E.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

3.15 Samsung

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
SNB-1000	SD	3	D	Audio In	1 x I 1 x O	NA	2.10.8	NA
SNB-5000	HD	3	D	Audio In	1 x I 1 x O	NA	2.10.8	V3.01
SNB-5004	HD	3	D	Audio In	1 x I 1 x O	NA	2.11.23	1.13_131218
SNP-3120	SD	3	D	Audio In	1 x I 1 x O	Y	2.10.8	NA
SNV-3120	SD	3	D	Audio In	1 x I 1 x O	Y	2.10.8	NA
SNV-5080P	HD	3	D	NOK	NOK	NA	2.10.8	2.10_111227 (ISP 2.66)
SNV-5080R	HD	3	D	NOK	NOK	NA	2.10.8	NA
SPE-100 Video Encoder	SD	3	D	Audio In	1 x I 1 x O	Y	2.10.8	NA
SPE-101 Video Encoder	SD	3	D	NA	NA	NT	2.11.29	2.30_131230
SPE-400 Video Encoder	SD	3	D	Audio In	1 x I 1 x O	Y	XOa 3.0.3	2.32_131230
SND-5061	HD	3	D	NA	NOK	NA	2.11.23	1.21_131002
SNF-7010	HD	3	D	Audio In	NA	NA	2.11.23	1.00_130806
SND-5061P	HD	3	D	NA	NOK	NA	2.11.29	1.21_131002
SNO-5080R	HD	3	D	NA	1 x I 1 x O	NA	2.11.29	3.22_131228
SNV-6084R	HD	3	D	Audio In	1 x I 1 x O	NA	2.11.29	2.22_131218
SND-5084	HD	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	XOa 3.0.3	1.13_131218

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
SNV-5084	HD	3	D	Built-in mic	1 x I 1 x O	NA	XOa 3.0.3	1.13_131218
SNV-7084	HD 3MP	3	D	Audio In	1 x I 1 x O	NA	XOa 3.0.3	1.00_140408
SNP6200RH	HD 2MP	3	D	Audio In	4 x I 2 x O	Y	XOa 3.0.3	

Important notes:

- The I-frame distance varies from 0.5 second to 4 seconds, depending on the framerate. I-frame distances < 4 seconds can increase the bandwidth and disk usage.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.
- Maximum 8 fps for all Samsung cameras on highest resolution.

3.16 Sanyo

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
VCC-HD3500P	HD	3	D	Audio In	1 x I 1 x O	NA	2.10.8	NA
VCC-HD4600P	HD	3	D	Audio In	1 x I 1 x O	NA	2.10.8	NA
VCC-HD5400P	HD	3	D	Audio In	1 x I 1 x O	Y	2.10.8	NA
VCC-HD2500P	HD (1080p)	3	D	Audio In Ext. mic (NT)	2 x I 2 x O (NT)	NA	2.10.8	NA
VCC-HD5600P	HD (1080p)	3	D	Audio In Ext. mic (NT)	4 x I 2 x O 8 x I 2 x O (NT)	Y NT	2.10.8	NA

Important notes:

- Only double-chip cameras will be supported. These are the models 2500, 3500, 4600, 5400, and 5600.
- The one-chip models will not be supported: 2100, 2300, 3100, and 3300.
- Maximum usable resolution is 1280 x 720.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

3.17 Sony

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
SNC-CH110	HD 720P	2	B	Audio In	NA	NA	2.10.8	1.78.00
SNC-CH120	HD 720P	2	B	Audio In	1 x I 1 x O	NA	2.10.8	NA
SNC-CH140	HD 720P	2	B	Audio In	1 x I 1 x O	NA	2.10.8	NA
SNC-CH160	HD 720P	2	B	Audio In Ext. mic	1 x I 1 x O	NA	2.10.8	NA
SNC-CH180	HD 720P	2	B	Audio In Ext. mic	1 x I 2 x O	NA	2.10.8	NA
SNC-CH210	HD 1080P	2	B	NA	1 x I	NA	XOa 3.0.3	1.82.0.1
SNC-CH220	HD 1080P	2	B	NA	1 x I 1 x O	NA	2.10.8	1.80.00
SNC-CH240	HD 1080P	2	B	Audio In Ext. mic	1 x I 2 x O	NA	2.10.8	NA
SNC-CH260	HD 1080P	2	B	Audio In Ext. mic	1 x I 2 x O	NA	2.10.8	NA
SNC-CH280	HD 1080P	2	B	Audio In Ext. mic	1 x I 2 x O	NA	2.10.8	NA
SNC-DH110T	HD 720P	2	B	Audio In Ext. mic (NT)	1 x I 2 x O (NT)	NA	2.10.8	1.78.00
SNC-DH120	HD 720P	2	B	NA	NA	NA	XOa 3.0.3	1.82.01
SNC-DH140	HD 720P	2	B	Audio In Ext. mic (NT)	1 x I 2 x O (NT)	NA	2.10.8	NA
SNC-DH160	HD 720P	2	B	Audio In	1 x I 1 x O	Y	2.10.8	NA
SNC-DH180	SD	2	B	Audio In	1 x I 1 x O	NA	2.10.8	NA
SNC-DH220T	HD 1080P	2	B	NA	1 x I 1 x O	NA	XOa 3.0.3	1.82.0.1

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
SNC-DH240	HD 1080P	2	B	Audio In Ext. mic	1 x I 2 x O	NA	2.10.8	NA
SNC-DH260	HD 1080P	2	B	Audio In Ext. mic	1 x I 2 x O	NA	2.10.8	NA
SNC-RH124 SNC-RH164	HD	2	B	Audio In	1 x I 1 x O	Y	2.10.8	NA
SNC-RS 44/46/N/P N=NTSC; P=PAL	SD	2	B	Audio In Ext. mic	4 x I 2 x O	Y	2.10.8	NA
SNC-RS 84/86/N/P N=NTSC; P=PAL	SD	2	B	Audio In Ext. mic	4 x I 2 x O	Y	2.10.8	NA
SNC-VB600B	HD 720P	2	B	NOK	NOK	NA	2.10.8	1.5.1
SNC-VB630	HD 1080P	2	B	NOK	NOK	NA	2.10.8	1.5.1
SNC-VM600B	HD 1080P	2	B	NOK	2 x I 2 x O	NA	XOa 3.0.3	2.2.1
SNC-EM600	HD 720P	2	B	NA	NA	NA	2.11.23	1.12.0
SNC-WR600	HD 720P	2	B	NA	4 x I 2 x O	Y	2.11.23	NA

Important notes:

- Non-tested camera models may result default resolution selections (as Sony does not return the supported resolutions) and will have the restriction of maximum 2 streams.
- Support for on-board analytics(DEPA) for 5th generation camera models.
- For SNC-CH110/CH220: if 4:3 resolutions are required, make sure the camera is set accordingly; and also likewise for 16:9 resolutions. The 2 streams must also stream with the same aspect ratio!
- Privacy masking has been disabled from FT2 version 2.11.12.
- For SNC-CH180: resolution 1280 x 720 is not supported.

3.18 Generic Driver URLs

Arecont AV20365DN:

4 possible streams, only 1 at a time, entered as url2 (**NO analytics**), 5 MP was not possible to stream.

rtsp://ip/h264.sdp1?x0=0&x1=2560&y0=0&y1=1920&res=full&fps=5&bitrate=1024&qp=25&ssn=20
rtsp://ip/h264.sdp4?x0=0&x1=2560&y0=0&y1=1920&res=full&fps=5&bitrate=1024&qp=25&ssn=25
rtsp://ip/h264.sdp2?x0=0&x1=2560&y0=0&y1=1920&res=full&fps=5&bitrate=1024&qp=25&ssn=30
rtsp://ip/h264.sdp3?x0=0&x1=2560&y0=0&y1=1920&res=full&fps=5&bitrate=1024&qp=25&ssn=35

Axis 7001 encoder:

only 1 stream possible, entered as url2 (**NO analytics**):
rtsp://ip:554/axis-media/media.amp?videocodec=h264&compression=50&fps=15&videokey

frameinterval=60&resolution=4CIF&audio=0

DRS Watchmaster IP Elite 3000 (thermal):

1 stream only!
rtsp://ip:554/2?videoCodecType=H.264

Flir FC 324-S:

1 URL for both analytics and event recording. Default username: ‘admin’, default password: ‘fliradmin’.
rtsp://192.168.10.78:554/ch0
Required camera Firmware: BU1.2 Define ‘ch0’ in the camera, in the same menu as the image size, but with label ‘Stream Name’. Set ‘IDR Factor’ to 1 in the camera, in the same menu as the image size, but with label ‘IDR Factor’.

LG LNP3020T:

This is a PTZ camera, only streaming possible
url1 (low res): rtsp://ip:554/Slave-0
url2 (high res): rtsp://ip:554/Master-0

Norbain / Vista VK2:

url 1: rtsp://a.b.c.d:554/1/stream1
url 2: rtsp://a.b.c.d:554/1/stream3

This camera has a 2-second interval for I-frames, hence a high bitrate.

Santec SNC-8322HO:

4 possible streams, but lowest frame rate is 13 fps, so not usable for analytics.
default login name: ‘admin’, default password: ‘9999’
rtsp://ip:554/h264
rtsp://ip:554/h264_2
rtsp://ip:554/h264_3
rtsp://ip:554/h264_4

Visicom 3S Vision DNMP6031IR:

default login name: ‘root’, password: ‘root’

url1 (low res, analytics): rtsp://ip:554/cam1/h264-1
url2 (high res, recording): rtsp://ip:554/cam1/h264

Visicom 3S Vision NWS-4071 encoder (4-channel):

default login name: ‘root’, password: ‘root’

url1 (low res, analytics): rtsp://ip:554/cam1/h264-1
url2 (high res, recording): rtsp://ip:554/cam1/h264

These URLs are for channel 1; for the other channels, replace cam1 by cam2, cam3, or cam4.

Ronix IP Camera:

url1 –rtsp://ip/cam0_1
url2 –rtsp://ip/cam0_0

3.19 Generic ONVIF Profile S Driver

NEW: Generic ONVIF driver. Use this driver to connect your ONVIF Profile S compliant IP camera.

> ***Note***
>
> Xtralis welcomes your feedback on cameras not listed in this document, that you may have used successfully with the ONVIF Profile S driver. If possible, please provide details on brand, type, camera firmware version, I/O functionality, or any extra information.

Cameras with XOa 3.0.3, tested and approved according to Xtralis' own protocols:

3.19.1 Eneo

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
PXD-5360F01IR Dewarp	HD 5 MP	2	B	Built-in mic	1 x I 1 x O	NA	XOa 3.0.3	NA
PXD-5362F01IR Dewarp	HD 5 MP	2	B	Built-in mic	1 x I 1 x O	NA	XOa 3.0.3	NA
PXB-1080Z03IR	HD 2 MP	2	B	NA	NA	zoom	XOa 3.0.3	4.25-155-ds

Important notes:

The list above contains only the Eneo cameras that Xtralis has tested and approved according to its own protocols. It is possible (but not guaranteed) that similar Eneo cameras, using the same firmware, also function correctly. It concerns the following camera types:

- 2 MP box / bullet / dome cameras:
  - PXC-2080CS
  - PXC-2080Z03
  - PXB-2080MIR B
  - PXB-1080Z03
  - PXB-2080Z03
  - PXB-2180Z03
  - PXD-2080MIR C
  - PXD-2080Z03
- Fisheye cameras:
  - PXD-5360F01IR
  - PXD-5362F01IR
- Thermal cameras:
  - PTB-1125F09
  - PTB-1125F13
  - PTB-1125F19
  - PTB-1125F35
  - PTB-1025F09

4 Supported IP Cameras for FastTrace 2

4.1 Integrated IP Cameras

The following cameras have been tested and approved for use with the FastTrace 2 units.

4.2 Legend

Abbreviation	Meaning
SD	Standard definition
HD	High definition
NA	Not available
NOK	Not OK, cannot be used on FastTrace 2 unit
NT	Not tested

4.3 IP Camera Default Settings

- Camera IP address should be set by web browsing into the camera. Avoid using included or downloaded (manufacturer's) IP camera setup tools.
- Make sure all camera settings are left at default, apart from changing the IP address.

4.4 Camera Manufacturers

Click the manufacturer to go to the supported IP cameras from that manufacturer:

- ACTI
- Arecont
- Avigilon
- Axis
- Bosch
- Brickcom
- Panasonic
- Pelco
- Samsung
- Sanyo
- Sony

4.5 ACTI

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
TCM 1231	HD	2	B	Audio In	1 x I 1 x O	NA	2.3.140	4.9.18
TCM 3511	HD	2	B	Audio In	1 x I 1 x O	NA	2.3.140	4.9.18
TCM 4101	SD	2	B	Audio In	NA	NA	2.3.140	4.9.18
TCM 4301	HD	2	B	Audio In	NA	NA	2.3.140	4.9.18
TCM 5311	HD	2	B	Audio In	1 x I 1 x O	NA	2.3.140	4.9.18
TCM 5611	HD	2	B	Audio In	1 x I 1 x O	NA	2.3.140	4.9.18
TCM 6630	SD	2	B	Y	1 x I 1 x O	Y	2.3.140	4.9.18
TCM 7411	HD	2	B	Audio In	1 x I 1 x O	NA	2.3.140	4.9.18
TCD 2500	SD	2	B	Audio In	1 x I 1 x O	NA	2.3.140	4.9.18

Important notes:

- Maximum usable framerate: 15 fps.
- Do not use B2 frames.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

4.6 Arecont

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
3105	HD	2	C	NA	NA	NA	2.3.140	NA
8185	HD	1	A	NA	NA	NA	2.3.140	NA

Important notes:

- The Arecont 8185 camera uses 4 IP video channels on the FastTrace 2.
- No analytics stream available (see FastTrace 2, 2X/2E Management of the IP Video Streams).
- Non-tested camera models may not work at all.

4.7 Avigilon

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
2.0MP-HD-H264-D1	HD	2	B	NOK	1 x O	NA	2.6.20	2.0.4.16
2.0MP-H3-B2	HD	2	B	NOK	1 x O	NA	2.9.5	2.4.10.4

Important notes:

- Highest resolution 1920 x 1080 cannot be selected.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

4.8 Axis

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
M1011	SD	2	B	NA	NA	NA	2.3.140	NA
M1011-W	SD	2	B	NA	NA	NA	2.3.140	NA
M1031-W	SD	2	B	Built-in mic *or* audio input	1 x I 1 x O	NA	2.3.140	NA
M1054	HD 1 MP 720p	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.3.140	NA
M1143-L	SD	3	D	NA	NT	NA	2.6.42	5.40.10
M3004	HD 1 MP 720p	3	D	NA	NA	NA	2.6.42	5.40.5
M3005/-V	HD 2 MP 1080p	3	D	NA	NA	NA	2.6.33	5.40.5
M3006	HD 3 MP 1080p	3	D	NA	1 x I 1 x O	NA	2.6.33	5.40.15
M3011	SD	2	B	NA	NA	NA	2.3.140	NA
M3014	HD 1 MP	2	B	NA	NA	NA	2.3.140	NA
M3025	HD 2 MP 1080p	3	D	NA	1 x I 1 x O	NA	2.9.5	5.40.5
M3114-R	HD 1 MP 720p	2	B	NA	NA	NA	2.3.140	5.21
M3204	HD 1 MP 720p	3	D	NA	NA	NA	2.3.140	5.12.1
M5014	HD 1 MP 720p	3	D	NA	NA	Y only for setting	2.3.140	5.25.2
P1204	HD 1 MP 720p	3	D	NA	NT	NA	2.6.20	5.40.12
P1311	SD	3	D	Audio In	1 x I 1 x O	NA	2.3.140	NA

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
P1343	SD	3	D	Audio In	1 x I 1 x O	NA	2.6.20	NA
P1344	HD 1 MP 720p	3	D	Audio In	1 x I 1 x O	NA	2.3.140	NA
P1346	HD 3 MP 1080p	3	D	Audio In	1 x I 1 x O	NA	2.6.20	5.40.9
P1347	HD 5 MP	2	B	Audio In	1 x I 1 x O	NA	2.3.140	5.40.9
P1354	HD 1 MP 720p	3	D	Audio In	1 x I 1 x O	NA	2.6.33	5.40.18
P1357	HD 5 MP	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.9.5	5.40.19
P3301/-V	SD	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.3.140	NA
P3304	HD 1 MP 720p	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.6.42	5.40.9
P3343/-V	SD	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.3.140	NA
P3343-VE	SD	3	D	Audio In	1 x I 1 x O	NA	2.3.140	NA
P3344/-V	HD 1 MP 720p	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.3.140	NA
P3344-VE	HD 1 MP 720p	3	D	Audio In	1 x I 1 x O	NA	2.3.140	NA
P3346	HD 3 MP	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.3.140	5.40.9

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
P3364-L	HD 1 MP 720p	3	D	Built-in mic *or* audio input	NT	NA	2.6.42	5.40.10
P3367/-V/-VE	HD 5 MP	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.3.140	5.40.3
P3384	HD 1 MP 720p	3	D	Built-in mic *or* audio input	NT	NA	2.6.42	5.40.11
P5512	SD	3	D	NT	NT	Y	2.3.140	5.25
P5522/-E	SD	3	D	NT	NT	Y	2.6.20	5.25.1
P5532/E	SD	3	D	NT	NT	Y	2.9.5	5.20.1
P5534/-E	HD 1 MP 720p	2	B	NT	4 I or O	Y	2.6.20	5.15.1
Q1602	SD	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.3.140	5.40.3
Q1604	HD 1 MP 720p	3	D	Built-in mic *or* audio input	1 x I 1 x O	NA	2.3.140	5.40.3
Q1755	HD 2 MP 1080i	3	D	Built-in mic *or* audio input	1 x I 1 x O	only zoom	2.3.140	NA
Q1921/-E Thermal	SD	2	B	Built-in mic *or* audio input	2 I or O	NA	2.3.140	NA
Q6032-E	SD	3	D	NA	NA	Y	2.3.140	NA
Q6035-E	HD 2 MP 1080p	2	B	NT	NT	Y	2.3.140	5.25

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
Q7401 Video Encoder	SD	3	D	Audio In	4 I or O	Y	2.10.8	NA
Q7404 Video Encoder	SD	3	D	Audio Input	2 I or O	NA	2.9.5	5.20.1
Q7411 Video Encoder	SD	3	D	Audio Input	Min. 2, max. 4 inputs; Min. 0, max. 2 outputs	NA	2.9.5	5.40.13.2

Important notes:

- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

4.9 Bosch

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
IXS0	SD	2	B	NOK	NOK	NA	2.6.40	1.6.13.9080 A1.4657
Dinion HD 1080p IVA	HD 1080P	2	B	Line in	OK	NA	2.6.40	5.70.43
Flexidome NDN-498-P	SD	2	B	NT	OK	NA	2.6.40	5.70.43
Flexidome NDN-921-P	HD 720P	2	B	NT	OK	NA	2.6.40	5.70.43
NDC 225 P	SD	2	B	Line in	OK	NA	2.6.40	5.70.43
Autodome 800 HD Series	HD 1080P (max res. 1280 x 720, 15 fps)	2	B	NT	OK	Y (Focus & Iris NA)	2.6.40	5.70.43
Flexidome HD 1080P	HD 1080P	2	B	NT	1 x I 1 x O	NA	2.9.5	5.80.73
Autodome 7000HD	SD	2	B	NT	1 x I 1 x O	Y (Focus & Iris NA)	2.9.5	5.80.73

Important notes:

- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

4.10 Brickcom

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
CB-100Ae-08	HD 1 MP	2	B	NA	NA	NA	2.3.140	3.1
CB-102Ap	HD 1 MP	2	B	NA	NA	NA	2.3.140	3.1
FB-131Ap-71	HD 1.3 MP	2	B	NA	NA	NA	2.3.140	3.1
FD-100Ap-73-M	HD 1 MP	2	B	NA	NA	NA	2.3.140	3.1
MD-100Ap-00	HD 1 MP	2	B	NA	NA	NA	2.3.140	3.1
OB-100Ap-73	HD 1 MP	2	B	NA	NA	NA	2.3.140	3.1
OSD-040E-36X up to 25 ips	SD	2	B	NA	NA	Y	2.3.140	3.1
VD-100Ap-73	HD 1 MP	2	B	NA	NA	NA	2.3.140	3.1

Important notes:

- XX-YYYAp-ZZZ: professional model = up to 30 ips.
- XX-YYYAe-ZZZ: economy model = up to 15 ips.
- Camera configuration: some Brickcom camera types have VMS configuration settings:
  - disable WS security for these camera types.
  - ONVIF 1.0 (default) / 2.0: both are possible, but 1.0 is recommended.
  - Synch (default) / Asynch: Sync is recommended.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

4.11 Panasonic

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
WV-NW502S	HD 1.3 MP	2	B	Audio In	External I/O	NA	2.3.140	1.32
WV-SW355E	HD 1.3 MP	2	B	Audio In	External I/O	NA	2.3.140	1.07
WV-SW395	HD 1.3 MP	2	B	Audio In	External I/O	Y	2.3.140	1.07
WV-SW316L	HD 1.3 MP	2	B	Audio In	NT	NA	2.6.20	1.49
WV-SW559	HD 1.3 MP	2	B	NT	NT	NA	2.6.20	NA

Important notes:

- Compared to similar IP cameras Panasonic uses significantly higher bandwidth.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

4.12 Pelco

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
IXS0	SD	2	B	NOK	NOK	NA	2.3.140	1.6.13.9080 A1.4657
IX10	HD 1.3 MP	2	B	NOK	NOK	NA	2.3.140	
IXE20	HD 2.1 MP (max res. 1600 x 1200)	2	B	NOK	NOK	NA	2.3.140	1.7.8.9081 A1.5288
IX30	HD 3.1 MP (max res. 1600 x 1200)	2	B	NOK	NOK	NA	2.3.140	1.7.19.9080 A1.5842
D5118-FW1	HD 1.3 MP (max res. 1280 x 960)	2	B	NOK	NOK	NA	2.3.140	NA
TI314-X Thermal	384 x 288	2	B	NOK	NOK	NA	2.9.5	1.8.2.18-20121109-1.9441-O4.8503

Important notes:

- Highest resolution cannot be selected.
- Pelco does not report a detailed cam type to FastTrace 2.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

4.13 Samsung

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
SNB-1000	SD	3	D	Audio In	1 x I 1 x O	NA	2.3.140	NA
SNB-5000	HD	3	D	Audio In	1 x I 1 x O	NA	2.3.140	V3.01
SNP-3120	SD	3	D	Audio In	1 x I 1 x O	Y	2.3.140	NA
SNV-3120	SD	3	D	Audio In	1 x I 1 x O	Y	2.3.140	NA
SNV-5080P	HD	3	D	NOK	NOK	NA	2.9.5	2.10_111227 (ISP 2.66)
SNV-5080R	HD	3	D	NOK	NOK	NA	2.3.140	NA
SPE-100 Video Encoder	SD	3	D	Audio In	1 x I 1 x O	Y	2.3.140	NA

Important notes:

- The I-frame distance varies from 0.5 second to 4 seconds, depending on the framerate. I-frame distances < 4 seconds can increase the bandwidth and disk usage.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

4.14 Sanyo

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
VCC-HD3500P	HD	3	D	Audio In	1 x I 1 x O	NA	2.3.140	NA
VCC-HD4600P	HD	3	D	Audio In	1 x I 1 x O	NA	2.3.140	NA
VCC-HD5400P	HD	3	D	Audio In	1 x I 1 x O	Y	2.3.140	NA
VCC-HD2500P	HD (1080P)	3	D	Audio In Ext. mic (NT)	2 x I 2 x O (NT)	NA	2.3.140	NA
VCC-HD5600P	HD (1080P)	3	D	Audio In Ext. mic (NT)	4 x I 2 x O 8 x I 2 x O (NT)	Y NT	2.3.140	NA

Important notes:

- Only double chip cameras will be supported. These are the models 2500, 3500, 4600, 5400, and 5600.
- The one-chip models will not be supported: 2100, 2300, 3100, and 3300.
- Maximum usable resolution is 1280 x 720.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

4.15 Sony

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
SNC-CH110	HD 720P	2	B	Audio In	NA	NA	2.9.5	1.78.00
SNC-CH120	HD 720P	2	B	Audio In	1 x I 1 x O	NA	2.3.140	NA
SNC-CH140	HD 720P	2	B	Audio In	1 x I 1 x O	NA	2.3.140	NA
SNC-CH160	HD 720P	2	B	Audio In Ext. mic	1 x I 1 x O	NA	2.3.140	NA
SNC-CH180	HD 720P	2	B	Audio In Ext. mic	1 x I 2 x O	NA	2.3.140	NA
SNC-CH240	HD 1080P	2	B	Audio In Ext. mic	1 x I 2 x O	NA	2.3.140	NA
SNC-CH260	HD 1080P	2	B	Audio In Ext. mic	1 x I 2 x O	NA	2.3.140	NA
SNC-CH280	HD 1080P	2	B	Audio In Ext. mic	1 x I 2 x O	NA	2.3.140	NA
SNC-DH110T	HD 720P	2	B	Audio In Ext. mic (NT)	1 x I 2 x O (NT)	NA	2.9.5	1.78.00
SNC-DH140	HD 720P	2	B	Audio In Ext. mic (NT)	1 x I 2 x O (NT)	NA	2.3.140	NA
SNC-DH160	HD 720P	2	B	Audio In	1 x I 1 x O	Y	2.3.140	NA
SNC-DH180	HD 720P	2	B	Audio In	1 x I 1 x O	NA	2.3.140	NA
SNC-DH240	HD 1080P	2	B	Audio In Ext. mic	1 x I 2 x O	NA	2.3.140	NA
SNC-DH260	HD 1080P	2	B	Audio In Ext. mic	1 x I 2 x O	NA	2.3.140	NA
SNC-RH124 SNC-RH164	HD	2	B	Audio In	1 x I 1 x O	Y	2.3.140	NA

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
SNC-RS 44/46/N/P N=NTSC; P=PAL	SD	2	B	Audio In Ext. mic	4 x I 2 x O	Y	2.3.140	NA
SNC-RS 84/86/N/P N=NTSC; P=PAL	SD	2	B	Audio In Ext. mic	4 x I 2 x O	Y	2.3.140	NA

Important notes:

- Non-tested camera models may result default resolution selections (as Sony does not return the supported resolutions) and will have the restriction of maximum 2 streams.
- Support for on-board analytics (DEPA) for 5th generation camera models.
- For SNC-CH110/CH220: if 4:3 resolutions are required, make sure the camera is set accordingly; and also likewise for 16:9 resolutions. The 2 streams must also stream with the same aspect ratio!

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